

FIG.1

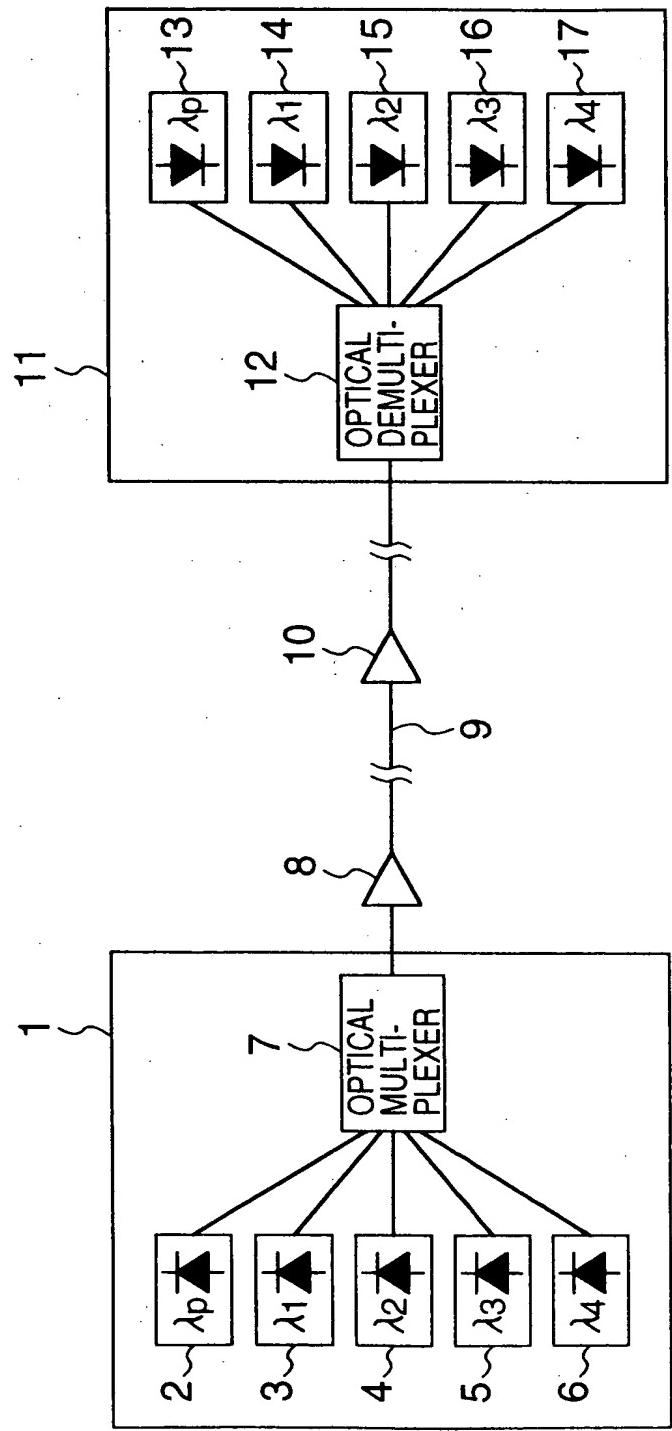


FIG. 2

$$\lambda_0 \quad \lambda_1 \quad \lambda_2 \quad \lambda_3 \quad \lambda_4 \quad \dots$$

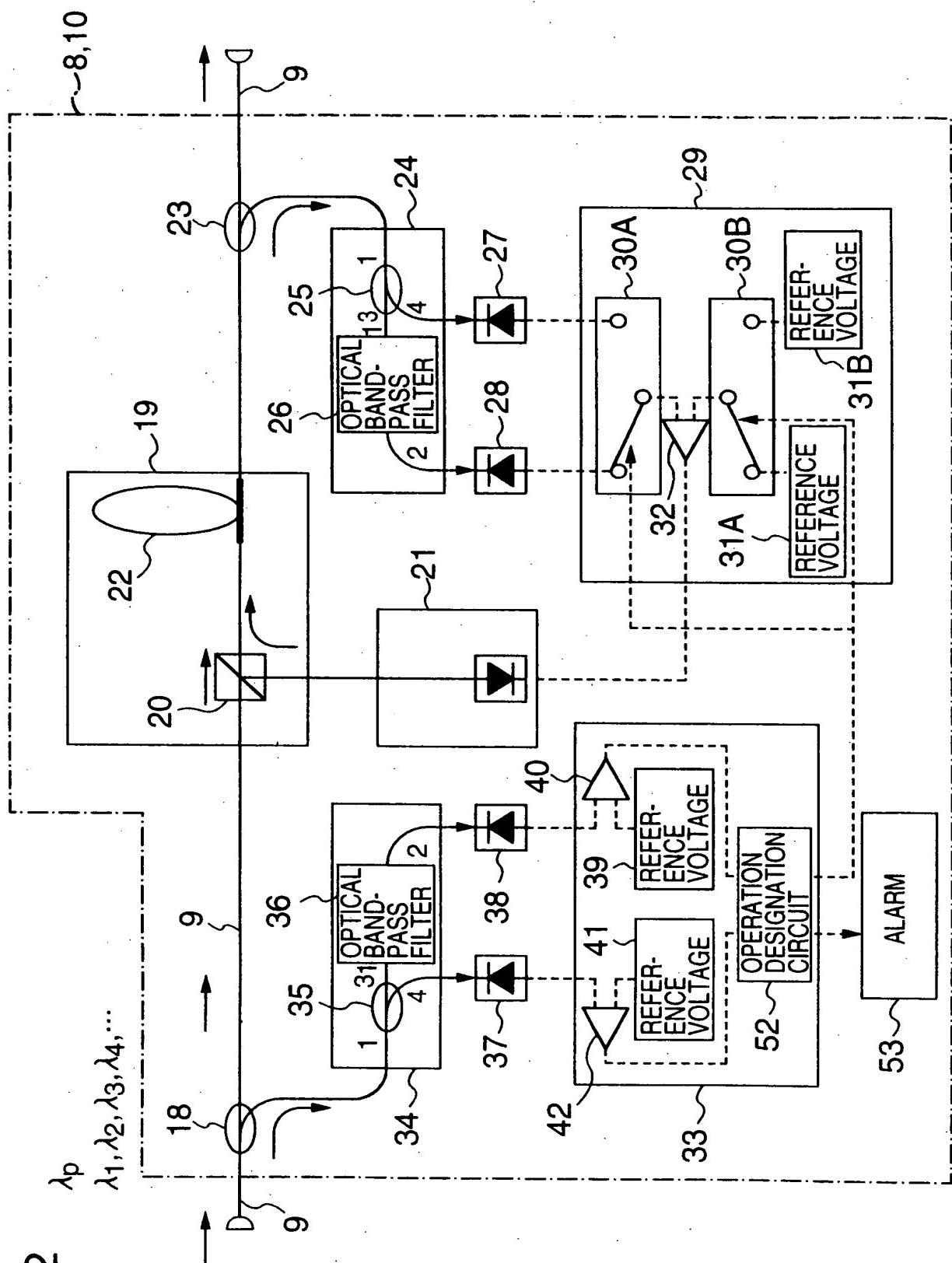


FIG.3

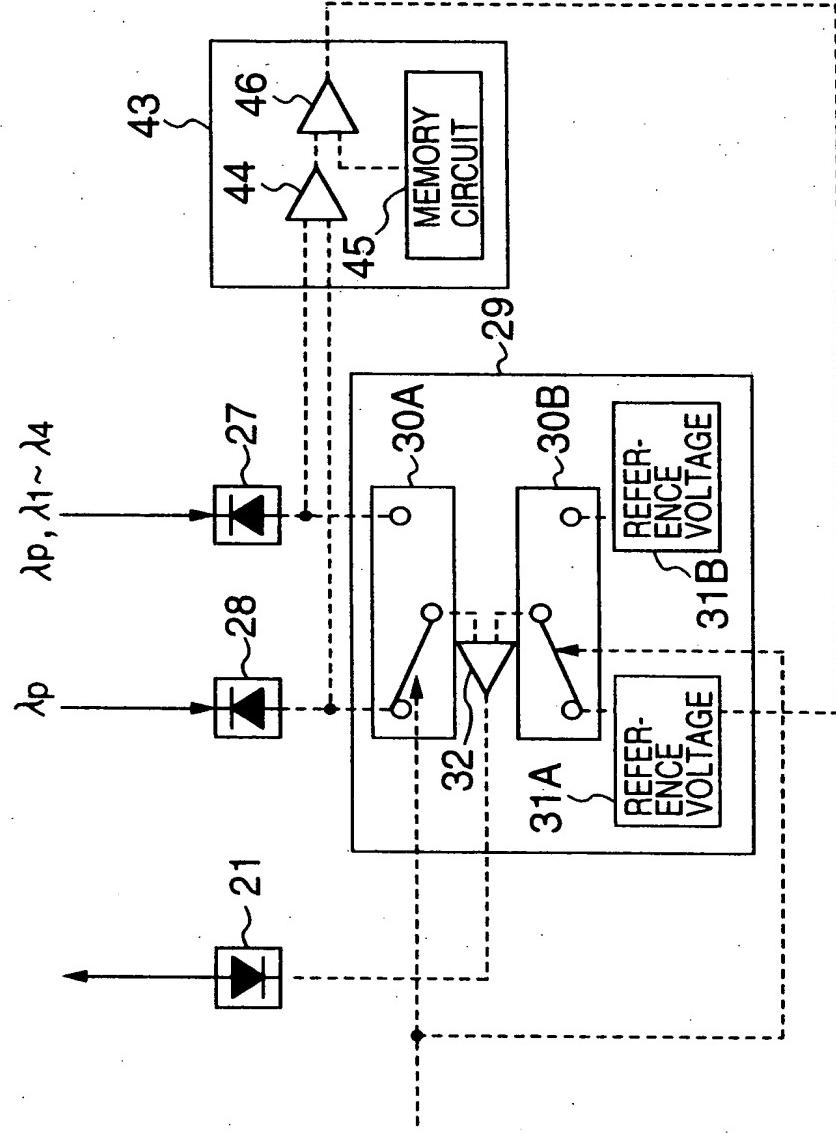


FIG.4

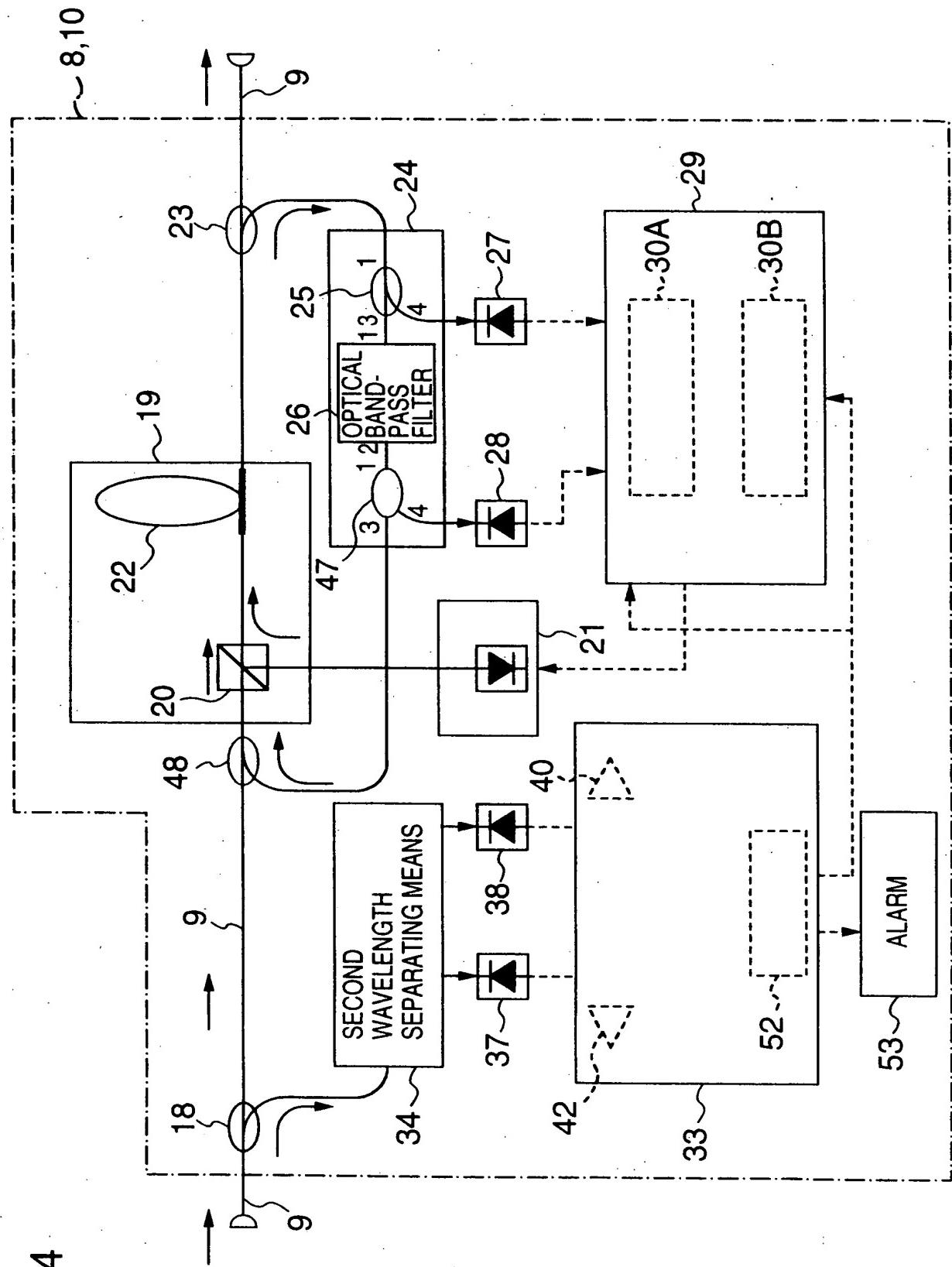
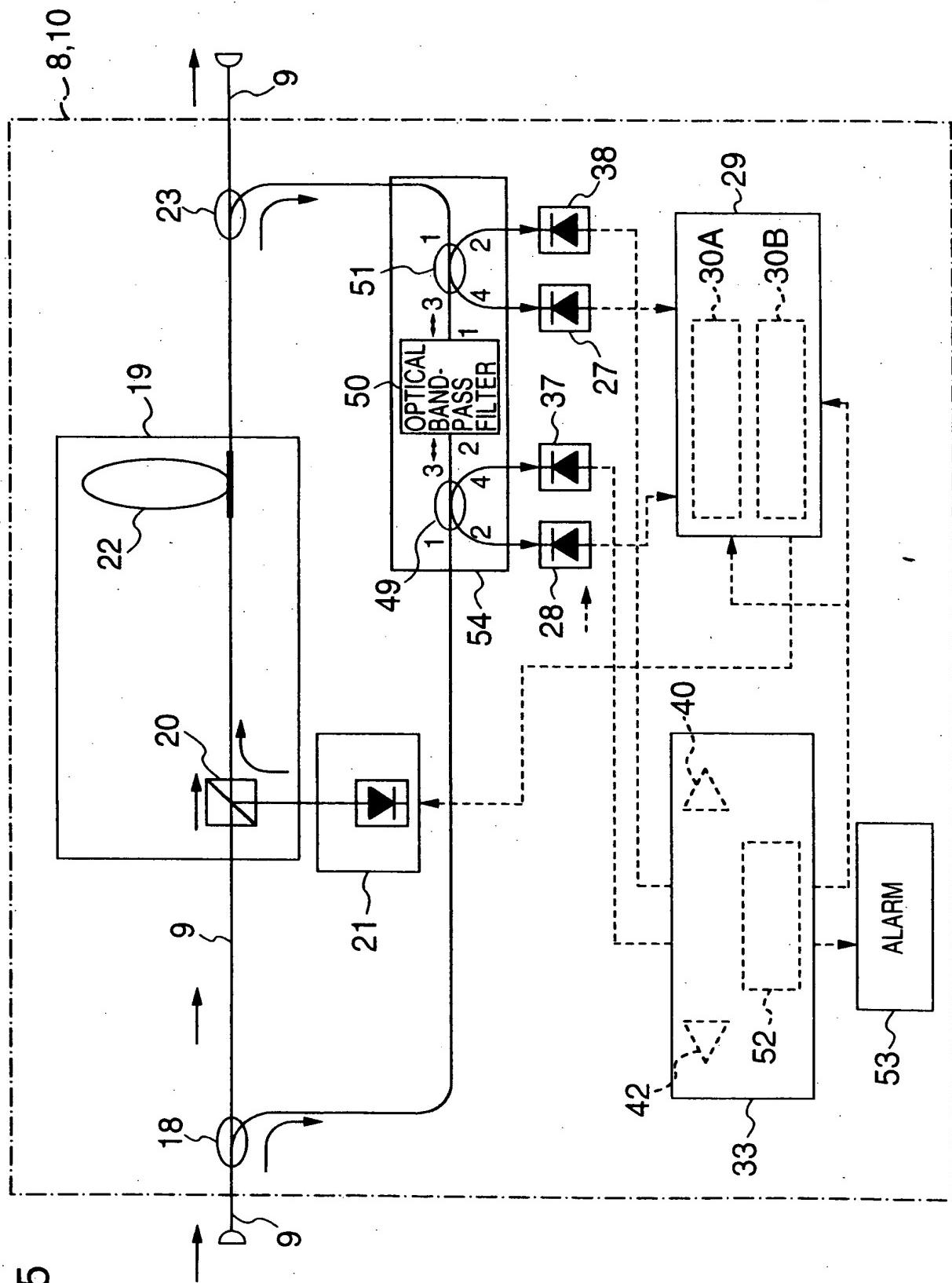


FIG.5



~8,10

FIG.6

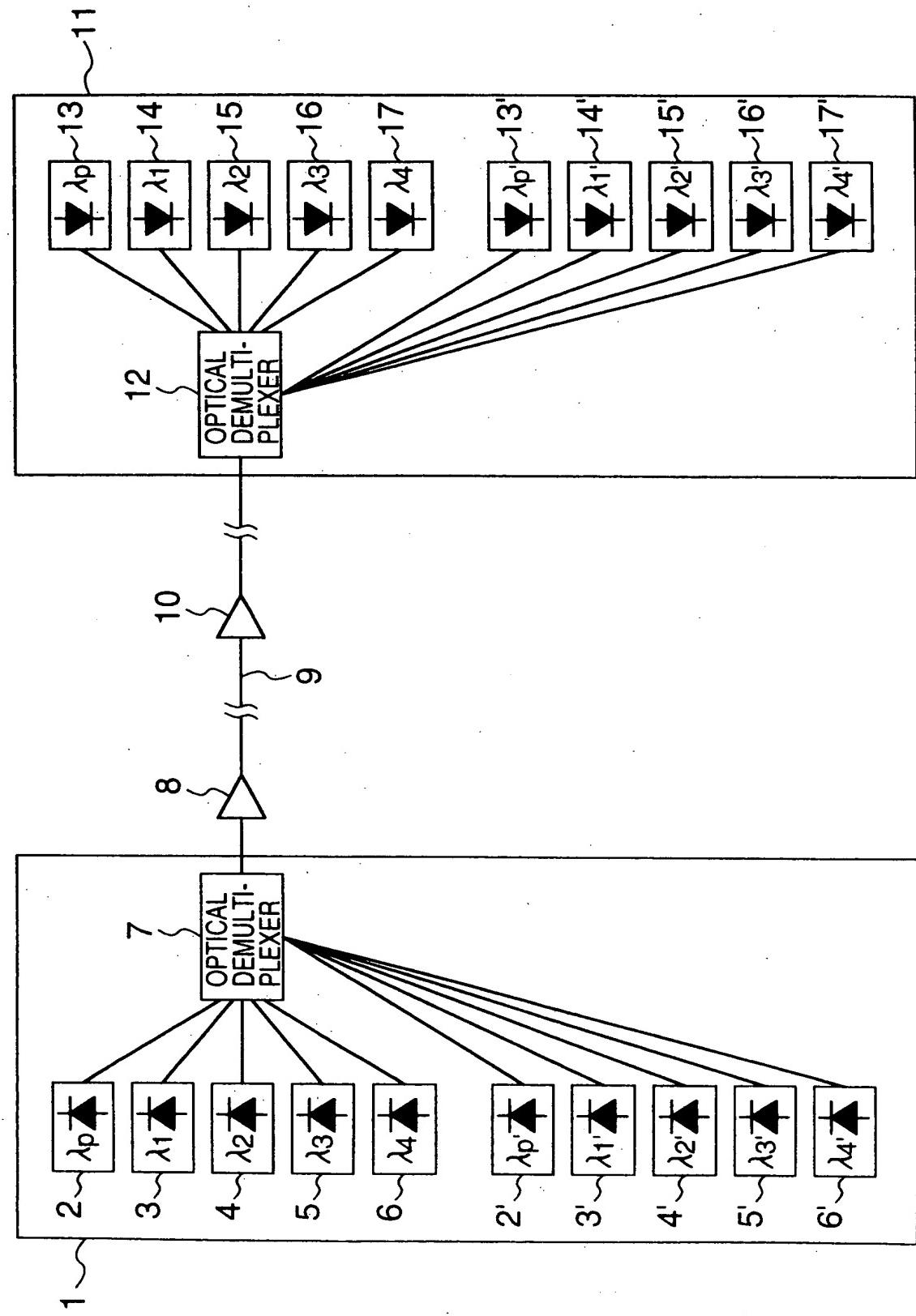


FIG.7

STATE	DECISION	SIGNALS GENERATED BY INPUT DETECTING UNIT	MONITOR SIGNALS SELECTED BY SELECTOR 30A	REFERENCE VOLTAGES SELECTED BY SELECTOR 30B	EXCITING CURRENT CONTROL
$\lambda p > \text{REFERENCE VOLTAGE } 39 \text{ AND } \lambda p, \lambda p-4 > \text{REFERENCE VOLTAGE } 41$	TRUNK LINE SYSTEM IS NORMAL AND PROBE LIGHT BEAM IS NORMAL	1ST OPERATION SIGNAL	LIGHT RECEIVING UNIT 28	REFERENCE VOLTAGE 31A	FEEDBACK CONTROL BY λp
$\lambda p > \text{REFERENCE VOLTAGE } 39 \text{ AND } \lambda p, \lambda p-4 > \text{REFERENCE VOLTAGE } 41$	TRUNK LINE SYSTEM IS NORMAL AND PROBE LIGHT BEAM IS ABNORMAL	2ND OPERATION SIGNAL	LIGHT RECEIVING UNIT 27	REFERENCE VOLTAGE 31B	FEEDBACK CONTROL BY λp AND $\lambda 1$ TO $\lambda 4$
$\lambda p > \text{REFERENCE VOLTAGE } 39 \text{ AND } \lambda p, \lambda p-4 > \text{REFERENCE VOLTAGE } 41$	TRUNK LINE SYSTEM AND TRANSMITTER ARE ABNORMAL	3RD OPERATION SIGNAL			(CURRENT DECREASE OR STOP) (ALARM RAISED BY ALARM CIRCUIT 53)
$\lambda p > \text{REFERENCE VOLTAGE } 39 \text{ AND } \lambda p, \lambda p-4 > \text{REFERENCE VOLTAGE } 41$	TRANSMIYER IS ABNORMAL AND PROBE LIGHT BEAM IS NORMAL	3RD OPERATION SIGNAL			(CURRENT DECREASE OR STOP) (ALARM RAISED BY ALARM CIRCUIT 53)